

Claims

Sub C1) 1. Roll stand for hot-rolling or cold-rolling rolled strips of different materials, including work rolls, back-up rolls and, optionally, intermediate rolls arranged in pairs, wherein the rolls (6) of at least one pair of rolls are axially displaceable toward both sides and have a contour suitable for compensating rolling defects, ^{wherein} ~~characterized in that~~ each displaceable roll (6) has at least one hydrodynamic oil film bearing (3) into which is integrated a hydraulic unit (17) which effects the axial displacement.

A 2. Roll stand according to claim 1, ^{wherein} ~~characterized in that~~ the hydraulic unit (17) has an annular cylinder (7) connected to the roll stand, wherein an annular piston (8) with an integrated ring (10) connected to the roll is sealingly guided in the annular cylinder (7).

A 3. Roll stand according to claim 2, ^{wherein} ~~characterized in that~~ pressure can be applied to both sides of the ring (10) of the annular piston (8).

A 4. Roll stand according to ^{claim 2, wherein} ~~claims 2 or 3, characterized in~~ ~~that~~ the annular cylinder (7) has two hydraulic connections (13).

A 5. Roll stand according to ^{claim 1} ~~one or more of claims 1 to 4,~~ ^{wherein} ~~characterized in that~~ a position indicator (15) is provided for each displaceable roll (6).

A 6. Roll stand according to claim 5, ^{wherein} ~~characterized in that~~ the axial position of the displaceable rolls (6) is controllable by means of the hydraulic unit (17) through a control circuit of the roll stand by using the signals of the position indicator (15).

A 7. Roll stand according to ^{claim 1} ~~one or more of claims 1 to 6,~~ ^{wherein} ~~characterized in that~~ the hydrodynamic oil film bearing (3) with the hydraulic unit (17) can be used as a retrofitting part.

A 8. Roll stand according to ^{claim 1} ~~one or more of claims 1 to 7,~~ ^{wherein} ~~characterized in that~~ the hydrodynamic oil film bearing (3) with the hydraulic unit (17) can be mounted in front stands and/or rear stands of hot rolling mills and/or cold rolling mills.

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